

LIGHT EMITTING DEVICE AND DISPLAY DEVICE

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Inventor: SHIMIZU YOSHINORI (JP); SAKANO KENSHO (JP); MORIGUCHI TOSHIRO (JP); NOGUCHI YASUNOBU (JP)
Applicant: NICHIA KAGAKU KOGYO KK (JP)
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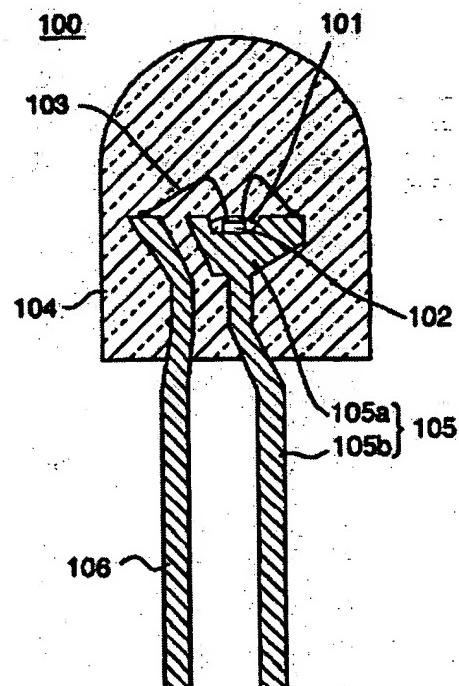
- WO9805078 (A1)
- US5998925 (A1)
- JP2000208815 (A)
- EP0936682 (A4)
- EP0936682 (B1)

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- US5202777
- US3819974
- WO9750132

Abstract of EP0936682

The white light emitting diode comprising a light emitting component using a semiconductor as a light emitting layer and a phosphor which absorbs a part of light emitted by the light emitting component and emits light of wavelength different from that of the absorbed light; wherein the light emitting layer of the light emitting component is a nitride compound semiconductor and the phosphor contains garnet fluorescent material activated with cerium which contains at least one element selected from the group consisting of Y, Lu, Sc, La, Gd and Sm, and at least one element selected from the group consisting of Al, Ga and In and, and is subject to less deterioration of emission characteristic even when used with high luminance for a long period of time.

Fig. 1

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